

Patent claims

1. An arrangement for cooling exhaust gas, having a housing (2) containing a heat-transfer region (5), and
5 an actuating element for controlling the flow of exhaust gas through the heat-transfer region (5) and/or a bypass duct (6), characterized in that the housing (2) is integrally formed in the longitudinal direction of the arrangement (1) for cooling exhaust gas, with
10 the actuating element being arranged in the housing (2).

2. The arrangement for cooling exhaust gas as claimed in claim 1, characterized in that the actuating element
15 is in the form of a flap (4).

3. The arrangement for cooling exhaust gas as claimed in claim 2, characterized in that the flap (4) has two or more parts, with a shaft (7') which forms the pivot shaft (7) of the flap (4) being formed separately from the part of the flap (4) which controls the flow of exhaust gas, and said part of the flap being attached to the shaft (7') after said shaft is mounted.

25 4. The arrangement for cooling exhaust gas as claimed in claim 3, characterized in that the part of the flap (4) which controls the flow of exhaust gas is attached to the shaft (7') by means of welding or hot-soldering or compression.

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5. The arrangement for cooling exhaust gas as claimed in one of the preceding claims, characterized in that the actuating element is arranged in the exhaust-gas inlet region (3) or in the exhaust-gas outlet region.

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6. The arrangement for cooling exhaust gas as claimed in one of the preceding claims, characterized in that the bypass duct (6) is arranged in the housing (2).

7. The arrangement for cooling exhaust gas as claimed in one of claims 1 to 5, characterized in that the bypass duct (6) branches off in the exhaust-gas inlet
5 region (3).

8. The arrangement for cooling exhaust gas as claimed in one of the preceding claims, characterized in that the housing (2) is integrally formed.

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9. The arrangement for cooling exhaust gas as claimed in claim 8, characterized in that the housing (2) contains the heat-transfer region (5), an exhaust-gas inlet region (3) and/or an exhaust-gas outlet region
15 (4).

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10. The arrangement for cooling exhaust gas as claimed in one of the preceding claims, characterized in that the housing is composed of two half-shells (the housing is divided in the longitudinal direction).

11. The arrangement for cooling exhaust gas as claimed in one of the preceding claims, characterized in that the exhaust gas is diverted in the cooler.

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12. The arrangement for cooling exhaust gas as claimed in one of the preceding claims, characterized in that the housing has openings through which the flap is fixed to the pivot shaft and this mounting opening is
30 later closed again.